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15. (Amended) A system for providing a control signal to control an excitation level of an alternator, the system comprising:

an outer loop means for providing a first control signal component based upon a plurality of output voltage indications from the alternator; and

an inner loop means for providing a second control signal component based upon at least one of the plurality of output voltage indications from the alternator;

wherein, the second control signal component provided by the inner loop means is updated at a more frequent rate than the first control signal component provided by the outer loop means, and

wherein the control signal to control the excitation level of the alternator is based upon the first and second control signal components.

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